

(FILE 'HOME' ENTERED AT 15:19:51 ON 22 DEC 2002)

FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 15:20:08 ON 22 DEC 2002

L1 1176 S YNES
L2 4 S S-YNES
L3 4 S L1 AND L2
L4 0 S L1 AND FRITZ
L5 0 S L1 AND YOUNGMAN

FILE 'STNGUIDE' ENTERED AT 15:22:41 ON 22 DEC 2002

L6 0 S L1 AND STREPTOCOCCUS
L7 0 S L1 AND BACILLUS

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=> FIL BIOSIS,CABA,CAPLUS,EMBASE,LIFESCI,MEDLINE,SCISEARCH,USPATFULL,JAPIO
COST IN U.S. DOLLARS

| SINCE FILE | TOTAL |
|------------|---------|
| ENTRY | SESSION |
| 0.21 | 0.21 |

FULL ESTIMATED COST

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FILE 'BIOSIS, CABA, CAPLUS, EMBASE, LIFESCI, MEDLINE, SCISEARCH,
USPATFULL, JAPIO' ENTERED AT 15:20:08 ON 22 DEC`2002

=> s ynes

L1 1176 YNES

=> s S-ynes

L2 4 S-YNES

=> s l1 and l2

L3 4 L1 AND L2

=> s l1 and fritz

L4 0 L1 AND FRITZ

=> s l1 and youngman

L5 0 L1 AND YOUNGMAN

=> d l3 1-3 ibib abs

L3 ANSWER 1 OF 4 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.

ACCESSION NUMBER: 2003:6608 BIOSIS

DOCUMENT NUMBER: PREV200300006608

TITLE: Use of **YNES**, essential bacterial genes and
polypeptides.

AUTHOR(S): Fritz, Christian; Youngman, Philip; Guzman, Luz-Maria
ASSIGNEE: Millennium Pharmaceuticals, Inc.

PATENT INFORMATION: US 6472377 October 29, 2002
SOURCE: Official Gazette of the United States Patent and Trademark
Office Patents, (Oct. 29 2002) Vol. 1263, No. 5, pp. No
Pagination. <http://www.uspto.gov/web/menu/patdata.html>.
e-file.
ISSN: 0098-1133.

DOCUMENT TYPE: Patent
LANGUAGE: English

AB Disclosed is a gene, termed "S-yneS," found in
Streptococcus pneumoniae, which is essential for survival for a wide range
of bacteria. This gene and the S-yneS polypeptide that
it encodes, as well as homologs and orthologs thereof (collectively
referred to as "yneS" genes and polypeptides) can be used to
identify antibacterial agents for treating a broad spectrum of bacterial
infections.

L3 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2002 ACS

ACCESSION NUMBER: 2000:241551 CAPLUS
DOCUMENT NUMBER: 132:290973
TITLE: An essential gene of Gram-positive bacteria,
yneS, and its gene product and possible
therapeutic use
INVENTOR(S): Fritz, Christian; Youngman, Philip; Guzman, Luz-maria
PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 65 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|------------------------|--|----------|-------------------|----------|
| WO 2000020627 | A1 | 20000413 | WO 1999-US22665 | 19990930 |
| W: | AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM | | | |
| RW: | GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG | | | |
| US 6472377 | B1 | 20021029 | US 1998-163445 | 19980930 |
| AU 9962772 | A1 | 20000426 | AU 1999-62772 | 19990930 |
| US 2002115591 | A1 | 20020822 | US 2002-68080 | 20020205 |
| PRIORITY APPLN. INFO.: | | | US 1998-163445 A | 19980930 |
| | | | US 1997-70116P P | 19971231 |
| | | | WO 1999-US22665 W | 19990930 |

AB Disclosed is a gene, termed "S-yneS", found in
Streptococcus pneumoniae and "B-yneS" in Bacillus subtilis,
which is essential for survival for a wide range of bacteria. This gene
and the S-yneS polypeptide that it encodes, as well as
homologs and orthologs thereof (collectively referred to as "yneS"
genes and polypeptides) can be used to identify antibacterial agents for
treating a broad spectrum of bacterial infections.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 3 OF 4 USPATFULL

ACCESSION NUMBER: 2002:283267 USPATFULL
TITLE: Use of YNES, essential bacterial genes and
polypeptides
INVENTOR(S): Fritz, Christian, Natick, MA, United States
Youngman, Philip, Boston, MA, United States
Guzman, Luz-Maria, Boston, MA, United States

PATENT ASSIGNEE(S): Millennium Pharmaceuticals, Inc., Cambridge, MA, United States (U.S. corporation)

| | NUMBER | KIND | DATE |
|---------------------|----------------|------|--------------|
| PATENT INFORMATION: | US 6472377 | B1 | 20021029 |
| APPLICATION INFO.: | US 1998-163445 | | 19980930 (9) |

| | NUMBER | DATE |
|-----------------------|--|---------------|
| PRIORITY INFORMATION: | US 1997-70116P | 19971231 (60) |
| DOCUMENT TYPE: | Utility | |
| FILE SEGMENT: | GRANTED | |
| PRIMARY EXAMINER: | Smith, Lynette R. F. | |
| ASSISTANT EXAMINER: | Baskar, Padma | |
| LEGAL REPRESENTATIVE: | Fish & Richardson P.C. | |
| NUMBER OF CLAIMS: | 9 | |
| EXEMPLARY CLAIM: | 1 | |
| NUMBER OF DRAWINGS: | 4 Drawing Figure(s); 4 Drawing Page(s) | |
| LINE COUNT: | 1505 | |

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Disclosed is a gene, termed "**S-yneS**," found in *Streptococcus pneumoniae*, which is essential for survival for a wide range of bacteria. This gene and the **S-yneS** polypeptide that it encodes, as well as homologs and orthologs thereof (collectively referred to as "**yneS**" genes and polypeptides) can be used to identify antibacterial agents for treating a broad spectrum of bacterial infections.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

=> FIL STNGUIDE

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| COST IN U.S. DOLLARS | SINCE FILE ENTRY | TOTAL SESSION |
| FULL ESTIMATED COST | 22.05 | 22.26 |
| DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) | SINCE FILE ENTRY | TOTAL SESSION |
| CA SUBSCRIBER PRICE | -0.62 | -0.62 |

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 20, 2002 (20021220/UP).

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